

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/610,551B

Input Set : N:\Crf4\08042003\I610551.raw
Output Set: N:\CRF4\08052003\I610551B.raw

SEQUENCE LISTING

			SEQUENCE DISTING			
		• •	RAL INFORMATION:			
	2	(i)	APPLICANT: Barbas, Carlos F, III			
•	3		Burton, Dennis R			
	4		Lerner, Richard A			
	5	(ii)	TITLE OF INVENTION: METHODS FOR PRODUCING ANTIBODY LIBRARIES			
	6		USING UNIVERSAL OR RANDOMIZED IMMUNOGLOBULIN LIGHT CHAINS			
	7	(iii)	NUMBER OF SEQUENCES: 70			
	8	(iv)	CORRESPONDENCE ADDRESS:			
	9		(A) ADDRESSEE: The Scripps Research Institute			
	10		(B) STREET: 10666 North Torrey Pines Road, TPC8			
	11		(C) CITY: La Jolla			
	12		(D) STATE: CA			
	13		(E) COUNTRY: USA			
	14		(F) ZIP: 92037			
	15	(v)	COMPUTER READABLE FORM:			
	16		(A) MEDIUM TYPE: Floppy disk			
	17		(B) COMPUTER: IBM PC compatible			
	18		(C) OPERATING SYSTEM: PC-DOS/MS-DOS			
	19		(D) SOFTWARE: PatentIn Release #1.0, Version #1.25			
	20	(vi)	CURRENT APPLICATION DATA:			
C>			(A) APPLICATION NUMBER: US/09/610,551B			
C>	22		(B) FILING DATE: 05-Jul-2000			
	23		(C) CLASSIFICATION:			
	24	(vii)	PRIOR APPLICATION DATA:			
W>	25.		(A) APPLICATION NUMBER: US 07/826,623			
	26		(B) FILING DATE: 27-JAN-1992			
M>	27		(A) APPLICATION NUMBER: US 08/174,674			
	28		(B) FILING DATE: 28-DEC-1993			
W>	29		(A) APPLICATION NUMBER: US 08/300,386			
	30		(B) FILING DATE: 02-SEP-1994			
W>	31		(A) APPLICATION NUMBER: US 08/931,645			
	32		(B) FILING DATE: 16-SEP-1997			
	33	(viii)	ATTORNEY/AGENT INFORMATION:			
	34		(A) NAME: Fitting, Thomas			
	35		(B) REGISTRATION NUMBER: 34,163			
	36		(C) REFERENCE/DOCKET NUMBER: TSRI 409.1			
	37	(ix)	TELECOMMUNICATION INFORMATION:			
	38		(A) TELEPHONE: 858-554-2937			
	39		(B) TELEFAX: 858-554-6312			
	40					
	41		SEQUENCE CHARACTERISTICS:			
	42		(A) LENGTH: 687 base pairs			

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/610,551B

DATE: 08/05/2003 TIME: 15:39:15

Input Set : N:\Crf4\08042003\1610551.raw
Output Set: N:\CRF4\08052003\1610551B.raw

```
43
             (B) TYPE: nucleic acid
              (C) STRANDEDNESS: single
45
              (D) TOPOLOGY: linear
46
       (ii) MOLECULE TYPE: cDNA
47
      (iii) HYPOTHETICAL: NO
48
       (iv) ANTI-SENSE: NO
49
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
        CTCGAGCAGT CTGGGGCTGA GGTGAAGAAG CCTGGGTCCT CGGTGAAGGT CTCCTGCAGG
50
                                                                                 60
51
        GCTTCTGGAG GCACCTTCAA CAATTATGCC ATCAGCTGGG TGCGACAGGC CCCTGGACAA
                                                                                120
        GGGCTTGAGT GGATGGGAGG GATCTTCCCT TTCCGTAATA CAGCAAAGTA CGCACAACAC
52
                                                                                 180
53
        TTCCAGGGCA GAGTCACCAT TACCGCGGAC GAATCCACGG GCACAGCCTA CATGGAGCTG
                                                                                 240
54
        AGCAGCCTGA GATCTGAGGA CACGGCCATA TATTATTGTG CGAGAGGGGA TACGATTTTT
                                                                                 300
55
        GGAGTGACCA TGGGATACTA CGCTATGGAC GTCTGGGGCC AAGGGACCAC GGTCACCGTC
                                                                                 360
56
        TCCGCAGCCT CCACCAAGGG CCCATCGGTC TTCCCCCTGG CACCCTCCTC CAAGAGCACC
                                                                                 420
57
        TCTGGGGGCA CAGCGGCCCT GGGCTGCCTG GTCAAGGACT ACTTCCCCGA ACCGGTGACG
                                                                                 480
        GTGTCGTGGA ACTCAGGCGC CCTGACCAGC GGCGTGCACA CCTTCCCGGC TGTCCTACAG
58
                                                                                 540
59
        TCCTCAGGAC TCTACTCCCT CAGCAGCGTG GTGACCGTGC CCTCCAGCAG CTTGGGCACC
                                                                                 600
60
        CAGACCTACA TCTGCAACGT GAATCACAAG CCCAGCAACA CCAAGGTGGA CAAGAAAGCA
                                                                                 660
61
        GAGCCCAAAT CTTGTGACAA AACTAGT
                                                                                 687
   (2) INFORMATION FOR SEQ ID NO: 2:
63
64
        (i) SEQUENCE CHARACTERISTICS:
65
             (A) LENGTH: 646 base pairs
66
             (B) TYPE: nucleic acid
67
             (C) STRANDEDNESS: single
68
             (D) TOPOLOGY: linear
69
       (ii) MOLECULE TYPE: cDNA
70
      (iii) HYPOTHETICAL: NO
71
       (iv) ANTI-SENSE: NO
72
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
73
        GAGCTCACGC AGTCTCCAGG CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCTCTCC
                                                                                 60
74
        TGCAGGGCCA GTCACAGTGT TAGCAGGGCC TACTTAGCCT GGTACCAGCA GAAACCTGGC
                                                                                120
7.5
        CAGGCTCCCA GGCTCCTCAT CTATGGTACA TCCAGCAGGG CCACTGGCAT CCCAGACAGG
                                                                                180
76
        TCCAGTGGCA GTGGGTCTGG GACAGACTTC ACTCTCACCA TCAGCAGACT GGAGCCTGAA
                                                                                240
77
        GATTTTGCAG TGTACTACTG TCAGCAGTAT GGTGGCTCAC CGTGGTTCGG CCAAGGGACC
                                                                                300
78
       AAGGTGGAAC TCAAACGAAC TGTGGCTGCA CCATCTGTCT TCATCTTCCC GCCATCTGAT
                                                                                360
79
       GAGCAGTTGA AATCTGGAAC TGCCTCTGTT GTGTGCCTGC TGAATAACTT CTATCCCAGA
                                                                                420
80
        GAGGCCAAAG TACAGTGGAA GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT
                                                                                480
81
        GTCACAGAGC AGGACAGCAA GGACAGCACC TACAGCCTCA GCAGCACCCT GACGCTGAGC
                                                                                540
82
       AAAGCAGACT ACGAGAAACA CAAAGTCTAC GCCTGCGAAG TCACCCATCA GGGCCTGAGT
                                                                                600
8.3
       TCGCCCGTCA CAAAGAGCTT CAACAGGGGA GAGTGTTAAT TCTAGA
                                                                                646
85 (2) INFORMATION FOR SEQ ID NO: 3:
86
        (i) SEQUENCE CHARACTERISTICS:
87
             (A) LENGTH: 21 base pairs
88
             (B) TYPE: nucleic acid
89
             (C) STRANDEDNESS: single
90
             (D) TOPOLOGY: linear
91
       (ii) MOLECULE TYPE: cDNA
92
      (iii) HYPOTHETICAL: NO
93
       (iv) ANTI-SENSE: NO
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21

21

21

48

RAW SEQUENCE LISTING

DATE: 08/05/2003 TIME: 15:39:15

PATENT APPLICATION: US/09/610,551B

Input Set: N:\Crf4\08042003\I610551.raw
Output Set: N:\CRF4\08052003\I610551B.raw

4 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
5 GAATTCTAAA CTAGCTAGTC G

95 97 (2) INFORMATION FOR SEQ ID NO: 4: 98 (i) SEQUENCE CHARACTERISTICS: 99 (A) LENGTH: 21 base pairs 100 (B) TYPE: nucleic acid 101 (C) STRANDEDNESS: single 102 (D) TOPOLOGY: linear 103 (ii) MOLECULE TYPE: cDNA 104 (iii) HYPOTHETICAL: NO 105 (iv) ANTI-SENSE: YES 106 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 107 ATACTGCTGA CAGTAATACA C 109 (2) INFORMATION FOR SEQ ID NO: 5: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs

110 (i) SEQUENCE CHARACTERISTICS:

111 (A) LENGTH: 57 base pairs

112 (B) TYPE: nucleic acid

113 (C) STRANDEDNESS: single

114 (D) TOPOLOGY: linear

115 (ii) MOLECULE TYPE: cDNA

116 (iii) HYPOTHETICAL: NO

117 (iv) ANTI-SENSE: NO

118 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5: 119 TATTACTGTC AGCAGTATNN KNNKNNKNK ACTTTCGGCG GAGGGACCAA GGTGGAG 57 121 (2) INFORMATION FOR SEQ ID NO: 6:

122 (i) SEQUENCE CHARACTERISTICS:
123 (A) LENGTH: 21 base pairs
124 (B) TYPE: nucleic acid
125 (C) STRANDEDNESS: single
126 (D) TOPOLOGY: linear
127 (ii) MOLECULE TYPE: cDNA

128 (iii) HYPOTHETICAL: NO
129 (iv) ANTI-SENSE: YES
130 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
131 AATACGACTC ACTATAGGGC G

133 (2) INFORMATION FOR SEQ ID NO: 7:
134 (i) SEQUENCE CHARACTERISTICS:
135 (A) LENGTH: 48 base pairs
136 (B) TYPE: nucleic acid
137 (C) STRANDEDNESS: single
138 (D) TOPOLOGY: linear
139 (ii) MOLECULE TYPE: cDNA

140 (iii) HYPOTHETICAL: NO 141 (iv) ANTI-SENSE: NO 142 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

143 TATTACTGTC AGCAGTATNN KNNKNNKNNK ACTTTCGGCG GAGGGACC
145 (2) INFORMATION FOR SEQ ID NO: 8:

146 (i) SEQUENCE CHARACTERISTICS: 147 (A) LENGTH: 60 base pairs

RAW SEQUENCE LISTING DATE: 08/05/2003 PATENT APPLICATION: US/09/610,551B TIME: 15:39:15

Input Set : N:\Crf4\08042003\I610551.raw
Output Set: N:\CRF4\08052003\I610551B.raw

```
148
              (B) TYPE: nucleic acid
149
              (C) STRANDEDNESS: single
150
              (D) TOPOLOGY: linear
151
        (ii) MOLECULE TYPE: cDNA
152
       (iii) HYPOTHETICAL: NO
        (iv) ANTI-SENSE: NO
153
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
154
         TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKACTTTCG GCGGAGGGAC CAAGGTGGAG
155
157 (2) INFORMATION FOR SEQ ID NO: 9:
158
        (i) SEQUENCE CHARACTERISTICS:
159
              (A) LENGTH: 51 base pairs
160
              (B) TYPE: nucleic acid
              (C) STRANDEDNESS: single
161
162
              (D) TOPOLOGY: linear
163
        (ii) MOLECULE TYPE: cDNA
164
      (iii) HYPOTHETICAL: NO
165
        (iv) ANTI-SENSE: NO
166
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
         TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKACTTTCG GCGGAGGGAC C
167
                                                                                  51
169 (2) INFORMATION FOR SEQ ID NO: 10:
170
        (i) SEQUENCE CHARACTERISTICS:
171
              (A) LENGTH: 75 base pairs
172
              (B) TYPE: nucleic acid
173
              (C) STRANDEDNESS: single
174
              (D) TOPOLOGY: linear
175
        (ii) MOLECULE TYPE: cDNA
      (iii) HYPOTHETICAL: NO
176
177
        (iv) ANTI-SENSE: NO
178
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
179
         GATTTTGCAG TGTATTACTG TCAGCAGTAT NNKNNKNNKN NKNNKNNKAC TTTCGGCGGA
                                                                                  60
180
        GGGACCAAGG TGGAG
                                                                                  75
182 (2) INFORMATION FOR SEQ ID NO: 11:
        (i) SEQUENCE CHARACTERISTICS:
183
184
              (A) LENGTH: 54 base pairs
              (B) TYPE: nucleic acid
185
186
              (C) STRANDEDNESS: single
187
              (D) TOPOLOGY: linear
188
        (ii) MOLECULE TYPE: cDNA
189
       (iii) HYPOTHETICAL: NO
190
        (iv) ANTI-SENSE: NO
191
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
192
         TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKNNKACTT TCGGCGGAGG GACC
                                                                                  54
194 (2) INFORMATION FOR SEQ ID NO: 12:
195
        (i) SEQUENCE CHARACTERISTICS:
196
              (A) LENGTH: 75 base pairs
197
              (B) TYPE: nucleic acid
198
              (C) STRANDEDNESS: single
199
              (D) TOPOLOGY: linear
200
        (ii) MOLECULE TYPE: cDNA
```

RAW SEQUENCE LISTING

DATE: 08/05/2003 PATENT APPLICATION: US/09/610,551B TIME: 15:39:15

Input Set : N:\Crf4\08042003\I610551.raw Output Set: N:\CRF4\08052003\I610551B.raw

201 202 203 204 205 207 208 209 210 211 212 213	(2)	(iv) (xi) GAT GGG INFO (i)	HYPOTHETICAL: NO ANTI-SENSE: NO SEQUENCE DESCRIPTION: SEQ ID ITTGCAG TGTATTACTG TNNKNNKNNK ACCAAGG TGGAG RMATION FOR SEQ ID NO: 13: SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear MOLECULE TYPE: cDNA		NKNNKNNKNN	KTTCGGCGGA	60 75
214			HYPOTHETICAL: NO				
215			ANTI-SENSE: YES				
216			SEQUENCE DESCRIPTION: SEQ ID				
217			CCACCTT GGTCCCTTGG CCGAAMNNMN	NMNNMNNMN	MNNMNNMNNA	CAGTAGTACA	60
218 220	/21		CAAAATC RMATION FOR SEQ ID NO: 14:				70
221	(2)		SEQUENCE CHARACTERISTICS:				
222		(+)	(A) LENGTH: 76 base pairs				
223			(B) TYPE: nucleic acid				
224			(C) STRANDEDNESS: single				
225			(D) TOPOLOGY: linear				
226		(ii)	MOLECULE TYPE: cDNA				
227			HYPOTHETICAL: NO				
228			ANTI-SENSE: YES				
229			SEQUENCE DESCRIPTION: SEQ ID CCACCTT GGTCCCTTGG CCGAAMNNMN		NANTATAANTATAANTATAA	NINIMATATA CIA CIII	60
230 231			ACACTIC GGICCCIIGG CCGAAMNNMN ACACTGC AAAATC	MAIMMAIMMAIMM	MINIMINIMINIMI	NNMNNACAGI	76
233	(2)		RMATION FOR SEQ ID NO: 15:				70
234	(2)		SEQUENCE CHARACTERISTICS:				
235		\- <i>\</i>	(A) LENGTH: 94 base pairs				
236			(B) TYPE: nucleic acid				
237			(C) STRANDEDNESS: single				
238			(D) TOPOLOGY: linear				
239			MOLECULE TYPE: cDNA				
240			HYPOTHETICAL: NO				
241 242			ANTI-SENSE: YES	NO. 15.			
243			SEQUENCE DESCRIPTION: SEQ ID CCACCTT GGTCCCTTGG CCGAAMNNMN		MINIMINIMINIM	MMMMMMMM	60
244			NMNNMNN MNNACAGTAG TACACTGCAA		ETIMINETIMINET	INTALITATION TATAL	94
	(2)		RMATION FOR SEQ ID NO: 16:				
247	. ,		SEQUENCE CHARACTERISTICS:				
248			(A) LENGTH: 25 base pairs				
249			(B) TYPE: nucleic acid				
250			(C) STRANDEDNESS: single				
251			(D) TOPOLOGY: linear				
252 253			MOLECULE TYPE: cDNA				
233		(+ + +)	HYPOTHETICAL: NO				

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/610,551B

DATE: 08/05/2003 TIME: 15:39:16

Input Set : N:\Crf4\08042003\I610551.raw
Output Set: N:\CRF4\08052003\I610551B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 6

VERIFICATION SUMMARY

DATE: 08/05/2003 PATENT APPLICATION: US/09/610,551B TIME: 15:39:16

Input Set : N:\Crf4\08042003\I610551.raw Output Set: N:\CRF4\08052003\1610551B.raw

L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:27 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii) L:29 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii) L:31 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1) (vii)